



# **WATER STEWARDSHIP**

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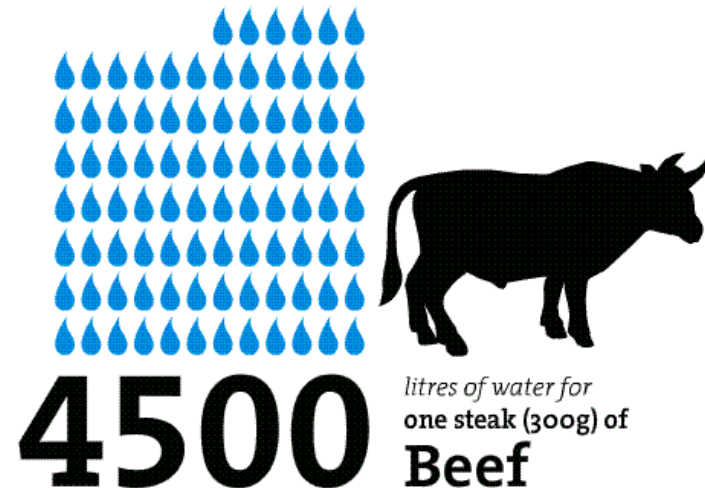
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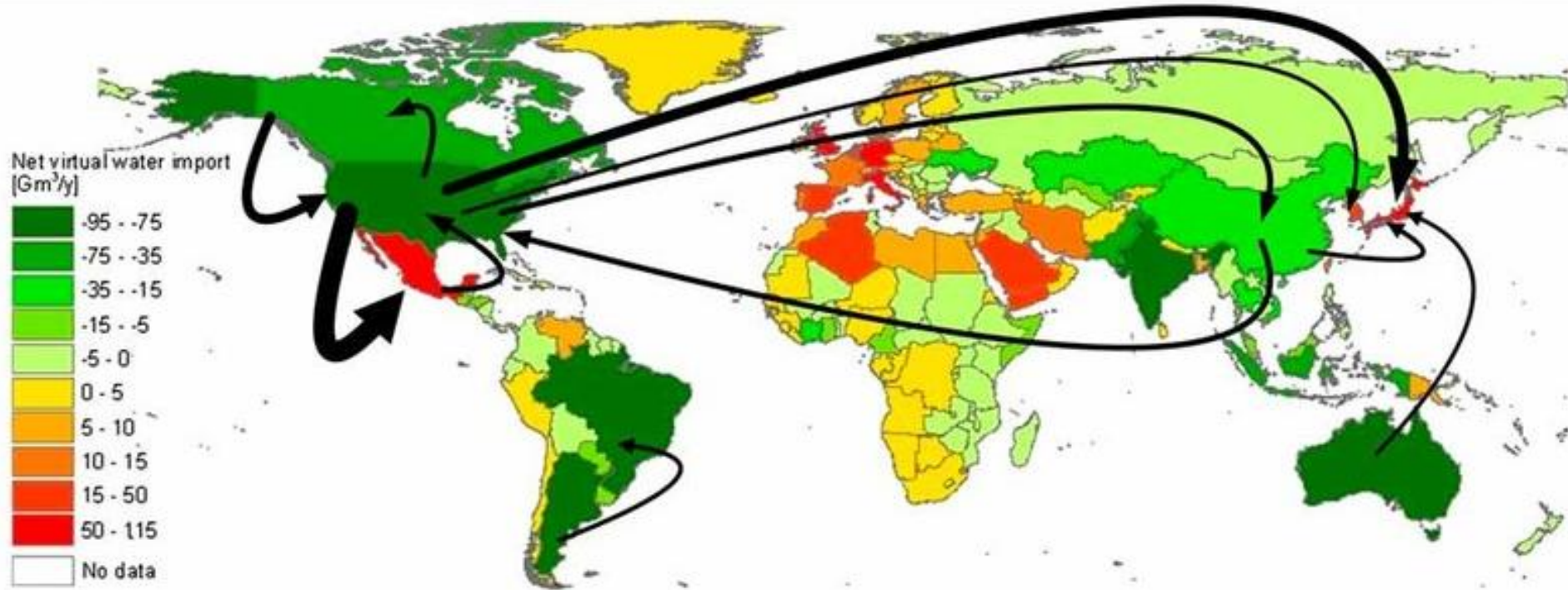
# Virtual water

- Water used for the production of food
- Water pollution



Source: The Virtual Water Project , Timm Kekeritz, based on Water footprints of nations: Water use by people as a function of their consumption pattern , A. Y. Hoekstra · A. K. Chapagain

# Virtual water trade

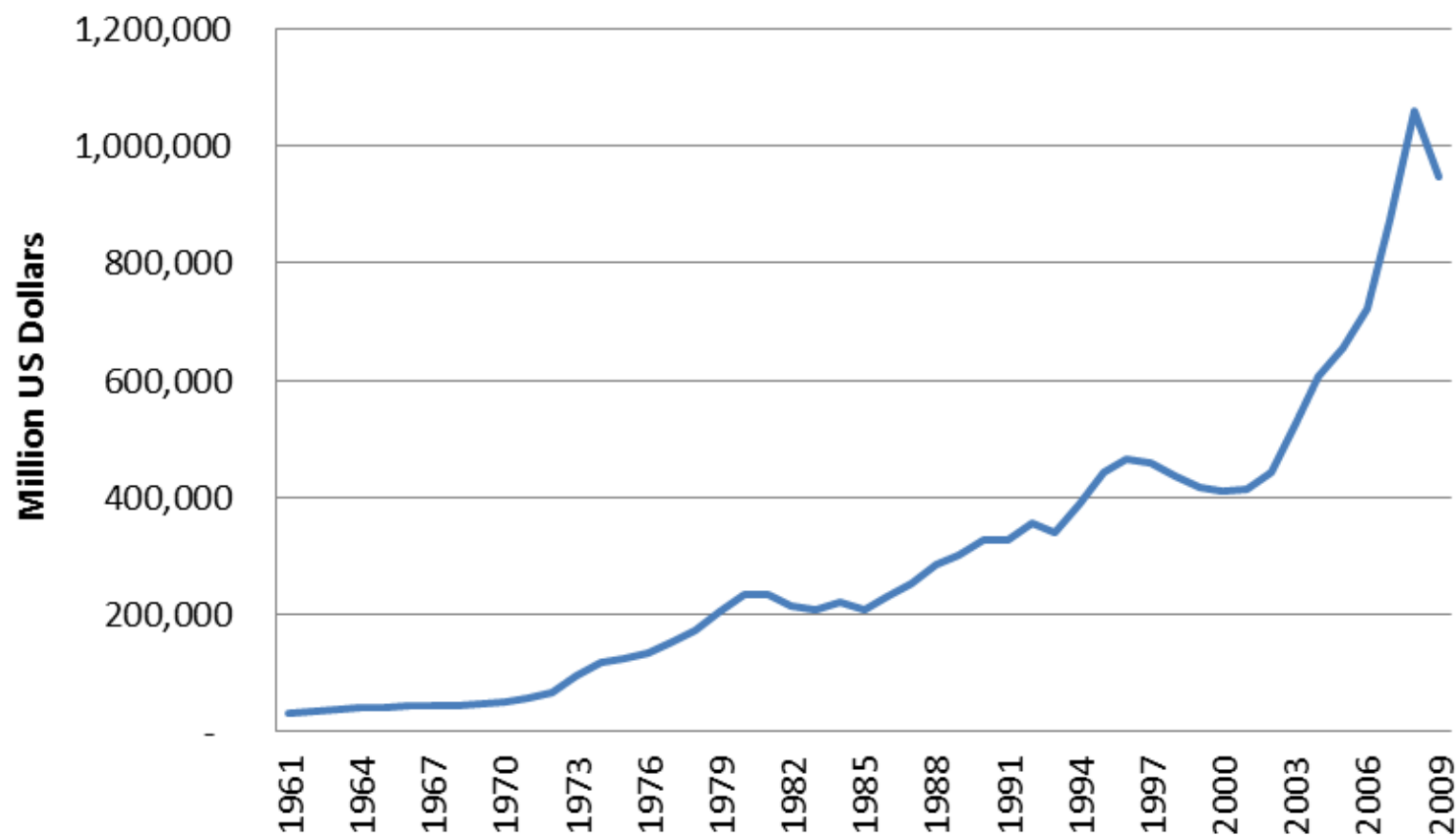


Source: Arjen Hoekstra and Mesfin Mekonnen, PNAS Early Edition (2012)

# Virtual water export

- Virtual water commonly viewed as solution for dry regions (import food instead of expensive irrigation works: Egypt).
- However, in practice often a net water export from relative dry regions to relative wet regions.
- Negative impacts from virtual water export from dry regions: competition with local communities for water & water pollution.

# World trade of agricultural products



Source: FAO Stat, 2012

Two cases:

- Flowers from Andean Mountains of Northern Ecuador
- Vegetables and fruits from desert Coast of Peru





# Flowers from Ecuador



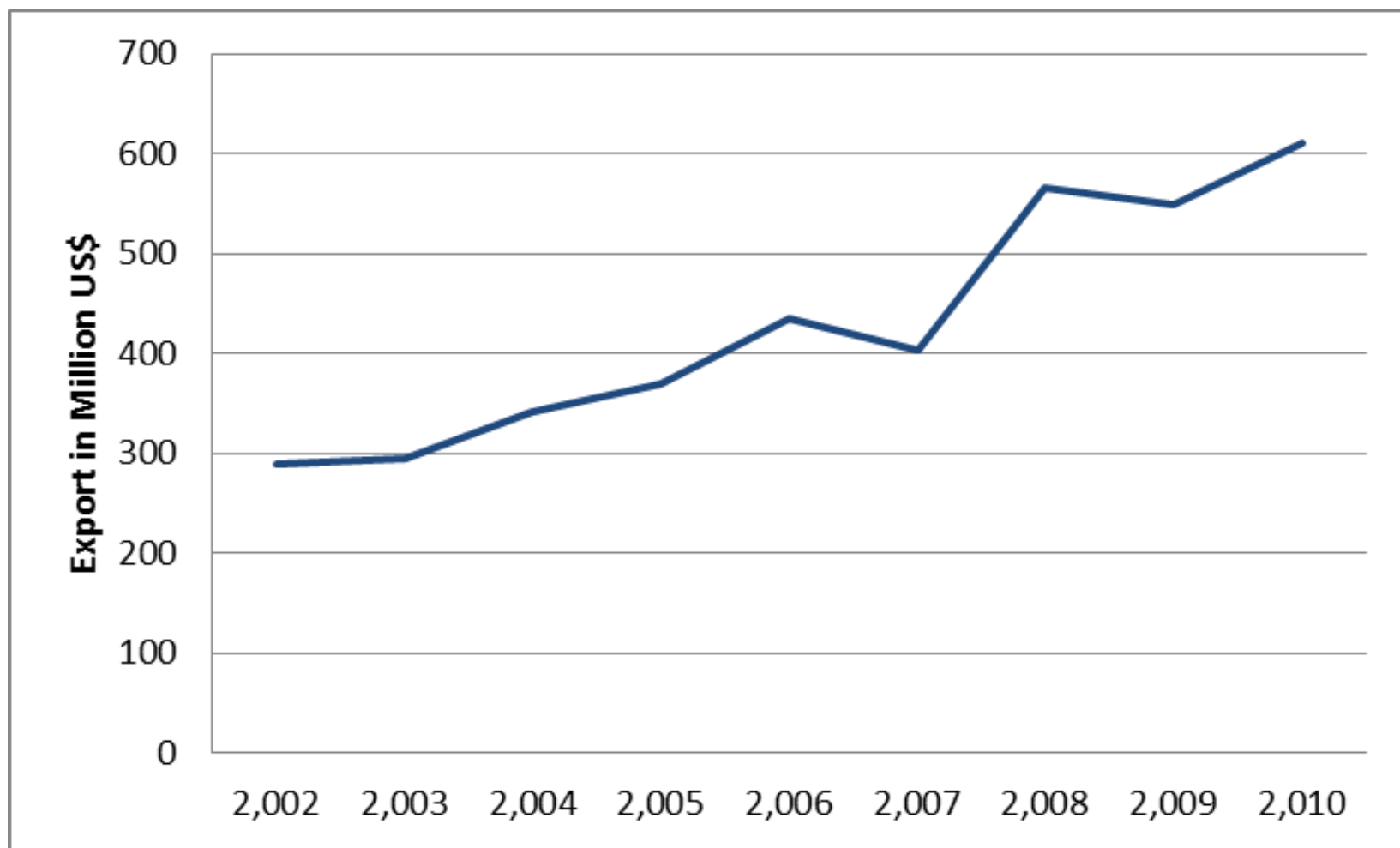








# Export of flowers from Ecuador



Source: UN trade com

(<http://comtrade.un.org/db/dqBasicQueryResults.aspx?px=HS&cc=06&r=218&p=0&rg=2&y=2010,2009,2008,2007,2006&so=8>)

# Effects of flower production:

- **Competition over water with smallholders**
- **Water pollution (health problems)**
- Profits are “syphoned off” to evade taxes
- Low salaries
- Insecure labour contracts
- Occupational accidents
- Changes in diet
- Social changes (communities fall apart)

# Vegetables and fruit from Peru





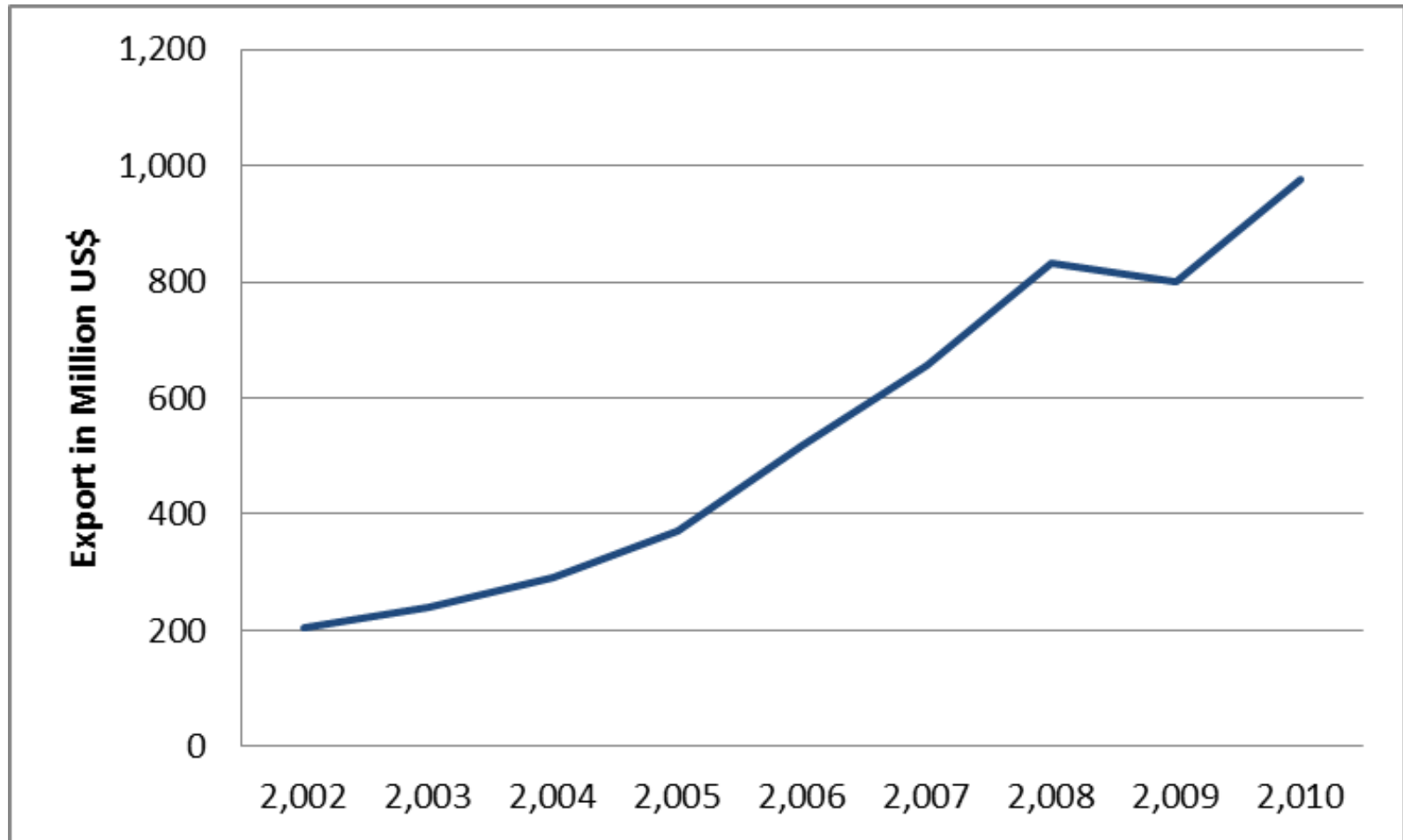








# Export of vegetables and fruits from Peru



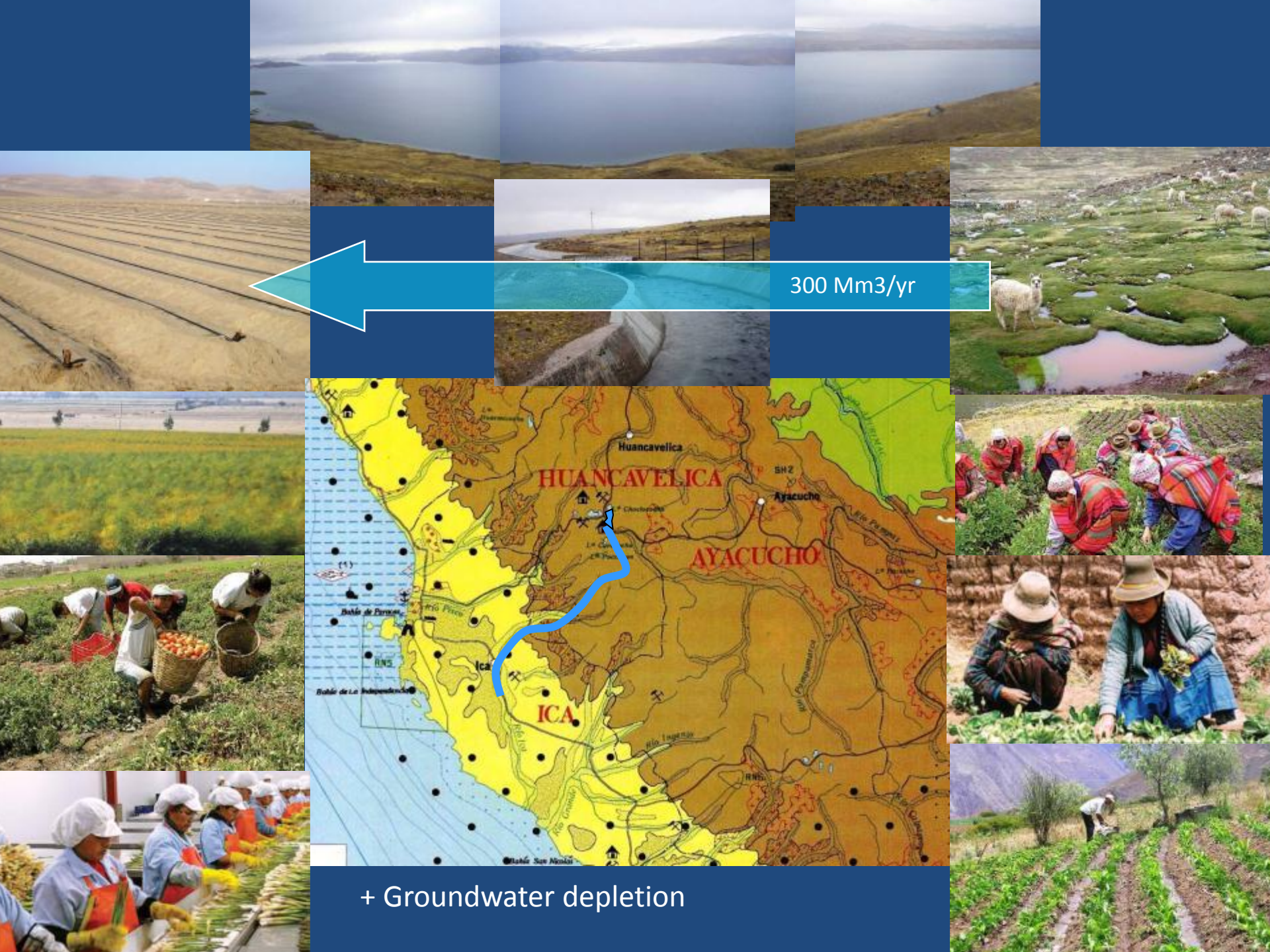
Source: UN trade com (<http://comtrade.un.org/db/>)

# Case study: Ica

- Interbasin water transfer from poor highlands to agribusiness in dry coast
- Ingahuasi collector (PETACC project)







300 Mm3/yr

+ Groundwater depletion





**SOCIEDAD AGRICOLA**  
**FUNDO DON CARLOS**  
**PROPIEDAD PRIVADA**

**AREA: 676.5209 Has**  
**FICHA REC N° 2354 SE**  
**DE KM 731.184 HASTA KM 733.850**







# Social protests

- Social protests of Pilpichaca communities
- Latin American Water Tribunal verdict in Mexico in Oct. 2007 against new “collector”



# WATER STEWARDSHIP CERTIFICATION

The logo for GLOBALG.A.P. in green capital letters.

- GlobalGAP / BRC / SCS / GMP / HACCP / TNC / BRC / SQF 1000, 2000 / FPA
- Flores: MPS / Fair Flowers
- Ecological agriculture: IFOAM, Tesco, Soil Association
- Round Tables on Soy / Sugar cane / Cotton / Biofuels
- Alliance for Water Stewardship



**AGROKASA**

Philosophy

Social Responsibility

Mission & Vision

Team

Certifications

Production

Availability

Customers

Net Acreage

Packing plants

Ecology

History

Corp. Drokasa

Gallery

Video

Data

Our Ranchs

Consumer Opinions

Contact Us

# Certification

## Certifications



Asparagus Grapes Avocados

on

# CSR: Water stewardship certification

Many existing schemes and recent initiatives to include “water issues” in certification:

- **GlobalGAP:** “To protect the environment, is water abstracted from a sustainable source? Sustainable sources are sources that supply enough water under normal (average) conditions”.
- **Better Cotton Initiative:** “management practices are adopted to ensure that water extraction does not cause adverse effects on groundwater or water bodies”

# Roles of national governments, companies and NGOs

- National governments: water laws, environmental legislation.
- International environmental governance.
- Companies: Corporate Social Responsibility
- NGOs: community organizations, consumer organizations, environmental organizations, small producers' organizations, and labour unions.



# WSC: Green washing or opportunity?

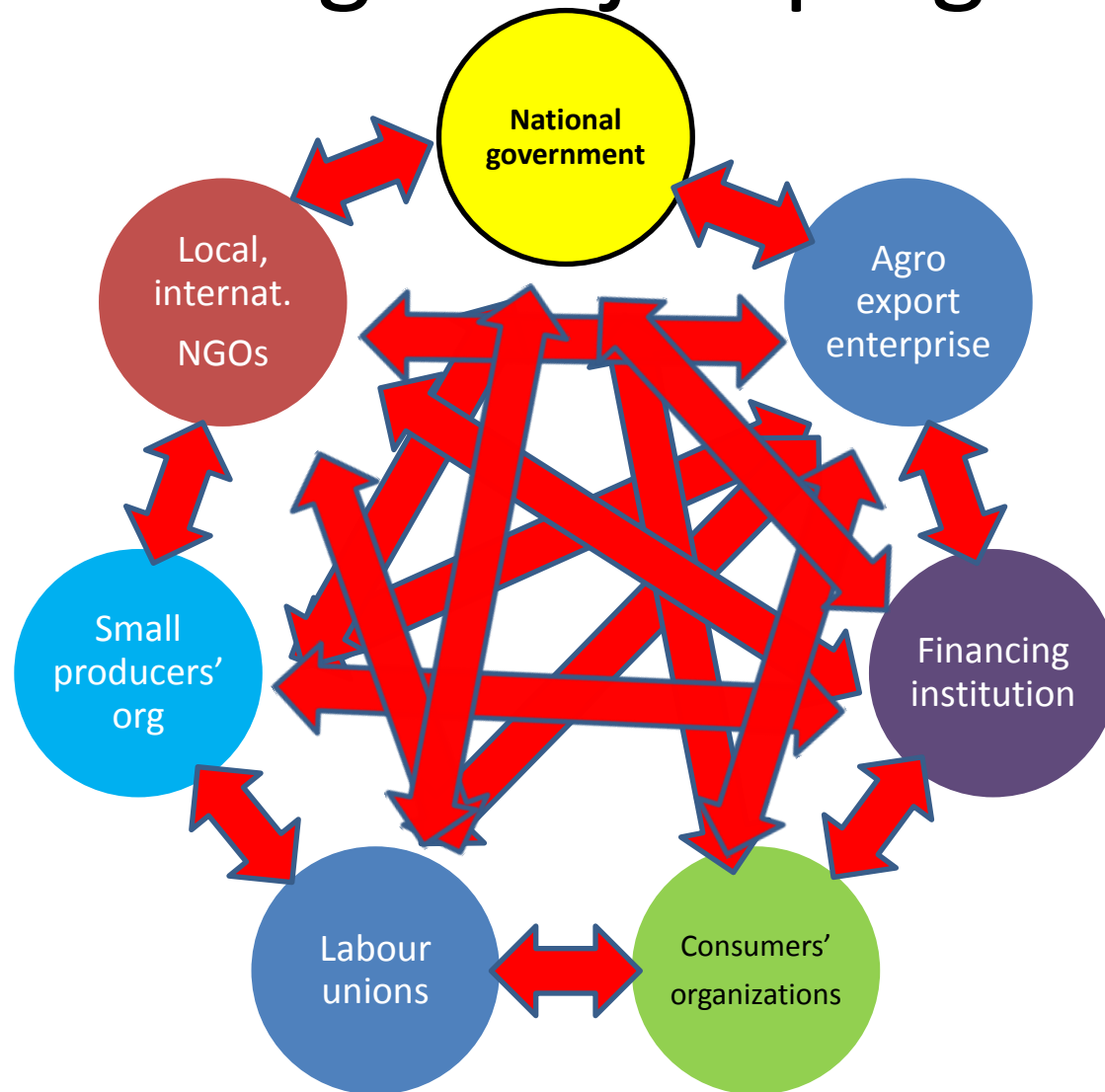
- Present certification does not stop “water grabbing”.
- Present certification does little to prevent water pollution.
- Certification reinforces images of “modern” and “efficient” vs. “traditional” agriculture.
- Certification excludes small landholders.
- Danger of green washing: consumer is not aware of effects.

# Opportunities?

- Some specific abuses might be corrected.
- Entrance for dialogue on abuses (they claim to do “good”).
- NGOs and labour organizations might use standards to improve conditions.
- However they must “jump scales”: coordinate with global movements...



# Networking and jumping scales



THANK YOU FOR  
YOUR ATTENTION

